

THOMSON TECHNICAL INFORMATION



PROSCAN

Product Support • Mail Stop INH 900
P.O. Box 1976 • Indianapolis, IN 46206 -1976

Television Service Bulletin

TV 02-006

DATE: August 5, 2002

CHASSIS: MMC101/MMC102/DTV306/DTV307

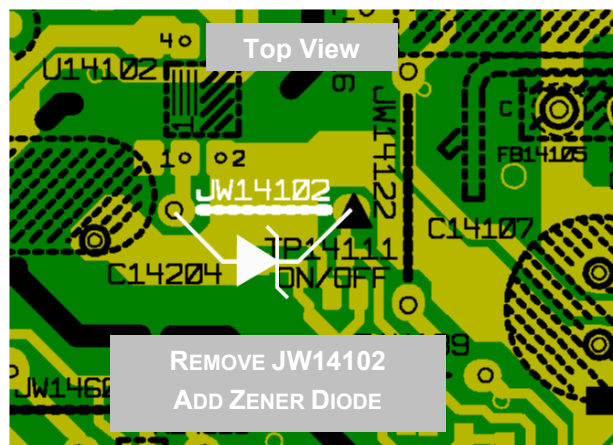
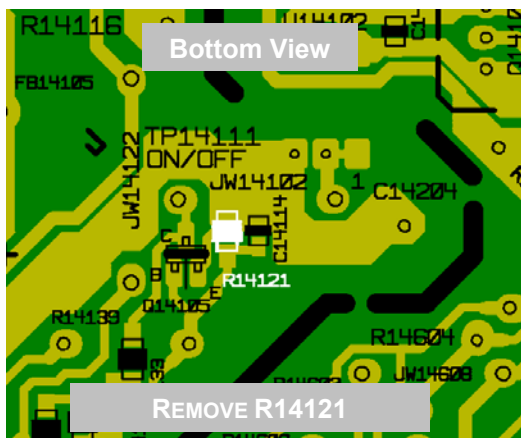
TOPIC: Straight vertical line phosphor burn near center of screen

Cause: Unstable power supply operation at AC line voltages lower than 85VAC

Background: Specifications for operation of the MMC101G series chassis indicate operating conditions from 0-140VAC. Protection circuitry to prevent the chassis from turning on and standby voltages to allow circuit monitoring are functional from 0-90VAC. The instrument is designed to operate down to about 90-95VAC, however unstable power supply operation may occur below 50VAC. Although it is not suggested to operate the chassis when line voltages are in that range, and it is recommended AC power be removed if those line voltages are present, protection circuits are designed to prevent possible chassis damage under those conditions. In some conditions the protection circuits may be inadequate.

Cure: Two component changes are required to assure proper protection of the chassis at line voltages less than optimal. The changes should be done during any service to chassis referenced by this bulletin regardless of the initial failure condition. The changes are outlined below.

1. Remove R14121, a 6800 ohm surface mount resistor at location I-23 on the bottom of the PS/Def board. The resistor will not be replaced.
2. Remove jumper wire JW14102 on the top of the PS/Def board at location HH-23.
3. Add a 5.1V ½ W zener diode, stock number 198602, replacing the jumper wire JW14102 removed in the previous step. The anode of the zener diode will be inserted into the vacant JW14102 hole connected to pin 1 of the photo-coupler, U14102. The cathode inserts into the vacant JW14102 hole connected to TP14111.
4. This completes the modifications to the chassis. Double check all previous work, and return all circuit boards to their proper locations.
5. No special tests or adjustments are required. Connect the instrument to 120VAC and turn it on. Confirm normal operation.



Product Safety Information

Product Safety information is contained in the appropriate Thomson multimedia Inc. Service Data covering models/chassis referenced herein. All specified Product Safety requirements and testing shall be complied with prior to returning equipment to the customer. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damages and may expose themselves and others to possible injury.